

58. (Amended) ~~The method of Claim 57 further comprising:~~ A method of  
calibrating a radiation detection system comprising:  
providing a radiation source that emits radiation, wherein the source is chosen  
from the group consisting of a uniform point-like source, a line-like source, a spherical  
source, a rod-like source, a collimated spot source, a slit source, a slot source, a grid  
pattern source, a planar flood field, and a shaped three-dimensional flood field,  
measuring an energy-dependent modulation transfer function of the detection  
system, and  
calibrating the system by accounting for both the detected radiation and the  
energy-dependent modulation transfer function.

#### REMARKS

In the Final office action of 06/15/2006 the amended claim 57 was rejected, claim 58 was objected to, and amended claim 59 was allowed. In response, claim 57 is now cancelled. Claim 58 has been amended by incorporating the first 7 lines from the amended version of claim 57 (the words "known" and "distribution" were removed).

#### CONCLUSION

Applicants respectfully submit that the Examiner's objections to claim 58 have been overcome and respectfully request that the Examiner reconsider and withdraw the outstanding objections and allow amended claim 58. Applicants thank the Examiner for his helpful comments.

Respectfully submitted,

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